

CONSOLIDATED CHECKLIST C5
Part 3 of 5 parts

Standards for Owners and Operators of Hazardous Waste Treatment,
Storage, and Disposal Facilities
40 CFR Part 264, Subparts K-S, as of June 30, 1996
as published in the July 1, 1996 CFR

Notes:

1) Consolidated Checklist C5 is divided into five separate documents/computer files solely for ease of handling its printed and electronic versions. Consolidated Checklist C5 remains one checklist; States must adopt all five portions simultaneously to correctly use this Consolidated Checklist. Note, the prenotes and endnotes associated with each part have been placed with the part to which they apply.

2) Section 264.232 was added by the December 6, 1994, final rule published at 59 FR 62896-62953. Its applicable provisions are included in Revision Checklist 154 which is a consolidation of all the rules associated with the organic air emission standards for tanks, surface impoundments, and container requirements (Subpart CC). EPA strongly recommends States wait to adopt Revision Checklist 154 in its entirety (including all rules published through November 25, 1996) rather than adopting the December 6, 1994, final rule as represented on this consolidated checklist. The December 6, 1994, rule is designated as rule 154.1.

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE

SUBPART K - SURFACE IMPOUNDMENTS

APPLICABILITY

surface impoundments used to treat, store, or dispose of hazardous waste	IV A	264.220					
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DESIGN AND OPERATING REQUIREMENTS

liner design, construction and installation	IV A, 17 H	264.221(a)					
requirements for liner materials	IV A	264.221(a)(1)					
foundation or base requirements	IV A	264.221(a)(2)					
area to be covered	IV A	264.221(a)(3)					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
considerations for exempting from 264.221(a)	IV A	264.221(b)					
		264.221(b)(1)					
		264.221(b)(2)					
		264.221(b)(3)					
		264.221(b)(4)					
1 surface impoundments which must install two or more liners and a leachate collection and removal system between such liners; "construction commences" defined under "existing facility"	17 H,77, 100	264.221(c)					
liner system must include:	100	264.221(c)(1)(i)					
top liner designed and constructed to prevent migration of hazardous constituents into liner for specified period	100	264.221(c)(1)(i)(A)					
2 composite bottom liner consisting of at least two components; upper component to prevent migration of hazardous constituents into this component during specified period; lower component designed and constructed to minimize such migration if upper component is breached; specified thickness and hydraulic conductivity	100	264.221(c)(1)(i)(B)					
liners must comply with 264.221(a)(1),(2)&(3)	100	264.221(c)(1)(ii)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
relationship between "leachate collection and removal system" and a "leak detection system"; what system must be capable of; minimum requirements:	100	264.221(c)(2)					
bottom slope of 1 percent or more	100	264.221(c)(2)(i)					
3 constructed of: 1) granular drainage materials with 1×10^{-1} cm/sec or more hydraulic conductivity and 12 in. (30.5 cm) or more thickness, or 2) synthetic or geonet drainage materials with 3×10^{-4} m ² /sec or more transmissivity	100	264.221(c)(2)(ii)					
construction material specifications	100	264.221(c)(2)(iii)					
designed and operated to minimize clogging during active life and post- closure care period	100	264.221(c)(2)(iv)					
specifications for sumps and liquid removal methods	100	264.221(c)(2)(v)					
collect and remove pumpable liquids in sumps to minimize head on bottom liner	100	264.221(c)(3)					
what must be demonstrated if leak detection system is not located completely above seasonal high water table	100	264.221(c)(4)					

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†,1,4 Alternative Design and Operating Practices

Regional Administrator may approve alternate design or operating practices if owner or operator can demonstrate that design/practices will:	17 H,100	264.221(d)					
prevent hazardous constituent migration into ground or surface water as effectively as system specified in 264.221(c), and	100	264.221(d)(1)					
allow detection of hazardous constituent leaks through top liner at least as effectively	100	264.221(d)(2)					

†,1,4 Waiver From Double Liner Requirements

conditions under which 264.221(c) requirements may be waived for a monofill	17 H	264.221(e)					
		264.221(e)(1)					
		264.221(e)(2)(i)(A)					
		264.221(e)(2)(i)(B)					
		264.221(e)(2)(i)(C)					
		264.221(e)(2)(ii)					

5 exemption from 264.221(c) for replacement surface impoundment unit

	100	264.221(f)					
meets RCRA 3004(o)(1)(A)(i) and (o)(5) design standards	100	264.221(f)(1)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
no reason to believe liner is not functioning as designed	100	264.221(f)(2)					
5 prevention of overtopping and malfunctions	IV A, 17 H,100	264.221(g)					
5 structural integrity of dikes	IV A, 17 H,100	264.221(h)					
5 specifications in the permit	IV A, 17 H,100	264.221(i)					
6 ACTION LEAKAGE RATE							
Regional Administrator approval of action leakage rate for surface impoundment units subject to 264.221(c) or (d); definition of action leakage rate; adequate safety margin	IV A,17 I, 100	264.222(a)					
how to determine if action leakage rate has been exceeded; unless another calculation approved, average daily flow rate calculated weekly during active life and closure period and monthly during post- closure care period	100	264.222(b)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
RESPONSE ACTIONS							
approved response action plan before receipt of waste for surface impoundments subject to 264.221(c) or (d); address actions if action leakage rate exceeded; at a minimum plan must describe actions in 264.223(b)	100	264.223(a)					
responsibilities if flow rate into leak detection system exceeds the action leakage rate for any sump:	100	264.223(b)					
notify Regional Administrator in writing within seven days of determination	100	264.223(b)(1)					
preliminary assessment to Regional Administrator within 14 days of determination; what assessment must address	100	264.223(b)(2)					
determine location, size and cause of any leak	100	264.223(b)(3)					
determine 1) whether waste receipt should cease or be curtailed, 2) whether waste should be removed for inspection, repairs, or controls, and 3) whether unit should be closed	100	264.223(b)(4)					
determine short- and long-term actions to mitigate or stop any leaks	100	264.223(b)(5)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
within 30 days after Regional Administrator notification, submit the results of 264.223(b)(3)- (5) analyses, the results of actions taken, and actions planned; thereafter, as long as flow rate exceeds action leakage rate, monthly report to Regional Administrator summarizing results of remedial actions taken and actions planned	100	264.223(b)(6)					
how the 264.223(b)(3)- (5) determinations must be made:	100	264.223(c)					
assess the source of liquids and amounts by source	100	264.223(c)(1)(i)					
conduct analyses of liquids in leak detection system to identify sources of liquids and location of leaks, and the hazard and mobility of the liquid	100	264.223(c)(1)(ii)					
assess seriousness of leaks	100	264.223(c)(1)(iii)					
document why assessments not needed	100	264.223(c)(2)					
reserved		264.224-264.225					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
MONITORING AND INSPECTION							
inspection of liners and cover systems during construction and installation	IV A	264.226(a)					
		264.226(a)(1)					
		264.226(a)(2)					
inspection requirements during operation	IV A	264.226(b)					
inspect overtopping control systems	IV A	264.226(b)(1)					
sudden drops in level of contents	IV A	264.226(b)(2)					
erosion or deterioration in containment devices	IV A,17 I	264.226(b)(3)					
certification of dike's structural integrity	IV A	264.226(c)					
		264.226(c)(1)					
		264.226(c)(2)					
if leak detection system required under 264.221(c) or (d), record amount of liquids removed from each sump, at least weekly during active life and closure period	100	264.226(d)(1)					
after final cover installed, at least monthly record the amount of liquids removed from each leak detection sump; when quarterly and semi- annual recording allowed; when monthly recording must resume	100	264.226(d)(2)					
definition of "pump operating level"	100	264.226(d)(3)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
EMERGENCY REPAIRS; CONTINGENCY PLANS							
conditions for removal from service	IV A	264.227(a)					
		264.227(a)(1)					
		264.227(a)(2)					
immediate action on removal from service	IV A	264.227(b)					
		264.227(b)(1)					
		264.227(b)(2)					
		264.227(b)(3)					
		264.227(b)(4)					
		264.227(b)(5)					
		264.227(b)(6)					
compliance procedure for 264.227(b) in contingency plan	IV A	264.227(c)					
conditions for restoration of service	IV A	264.227(d)					
		264.227(d)(1)					
		264.227(d)(2)					
		264.227(d)(2)(i)					
		264.227(d)(2)(ii)					
closure of inactive surface impoundments	IV A	264.227(e)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
CLOSURE AND POST-CLOSURE CARE							
closure requirements	IV A	264.228(a)					
		264.228(a)(1)					
		264.228(a)(2)(i)					
		264.228(a)(2)(ii)					
		264.228(a)(2)(iii)					
		264.228(a)(2)(iii)(A)					
		264.228(a)(2)(iii)(B)					
		264.228(a)(2)(iii)(C)					
		264.228(a)(2)(iii)(D)					
		264.228(a)(2)(iii)(E)					
		post-closure requirements		264.228(b)			
IV A	264.228(b)(1)						
100	264.228(b)(2)						
IV A,17 I, 100	264.228(b)(3)						
	264.228(b)(4)						
plans needed whenever liner requirements are not met	IV A	264.228(c)(1)					
		264.228(c)(1)(i)					
		264.228(c)(1)(ii)					
cost estimate inclusions	IV A	264.228(c)(2)					
removed	IV A,17 I	264.228(d)					
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE							
conditions for placement of ignitable or reactive waste	*,78	264.229					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
waste treatment to specific criteria prior to placement	IV A	264.229(a)					
		264.229(a)(1)					
		264.229(a)(2)					
waste management to prevent reaction or ignition	IV A	264.229(b)					
emergency placement	IV A	264.229(c)					
SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES							
prohibited co-disposal of incompatible wastes or materials unless compliance with 264.17(b)	IV A	264.230					
SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026, AND F027							
requirements for F020- F023, F026 and F027 regarding placement in surface impoundments; special management plan; factors to be considered	14	264.231(a)					
		264.231(a)(1)					
		264.231(a)(2)					
		264.231(a)(3)					
		264.231(a)(4)					
additional requirements as determined by Regional Administrator	14	264.231(b)					
9 the owner or operator shall manage all hazardous waste placed in a surface impoundment in accordance with the requirements of subpart CC of this part	154.1	264.232					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
SUBPART L - WASTE PILES							
APPLICABILITY							
storage or treatment facilities using waste piles	IV A	264.250(a)					
closed piles with waste in place subject to Subpart N of 264	IV A	264.250(b)					
waste piles under a structure	IV A	264.250(c)					
piles inside or under a structure; provisions for exclusion from regulation under 264.251 or Subpart F of Part 264	IV A	264.250(c)(1)					
		264.250(c)(2)					
		264.250(c)(3)					
		264.250(c)(4)					
DESIGN AND OPERATING REQUIREMENTS							
what a waste pile must have	IV A	264.251(a)					
		264.251(a)(1)					
		264.251(a)(1)(i)					
		264.251(a)(1)(ii)					
		264.251(a)(1)(iii)					
liner design standards	IV A						
leachate collection and removal system standards	IV A	264.251(a)(2)					
		264.251(a)(2)(i)					
		264.251(a)(2)(i)(A)					
		264.251(a)(2)(i)(B)					
		264.251(a)(2)(ii)					
exemption from 264.251(a)	IV A	264.251(b)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
exemption criteria	IV A	264.251(b)(1)					
		264.251(b)(2)					
		264.251(b)(3)					
		264.251(b)(4)					
10 waste piles that must install two or more liners and a leachate collection and removal system above and between these liners; "construction commences" defined under "existing facility"	IV A, 100	264.251(c)					
liner system must include:	100	264.251(c)(1)(i)					
top liner designed and constructed to prevent migration of hazardous constituents into liner for specified period	100	264.251(c)(1)(i)(A)					
composite bottom liner consisting of at least two components; upper component to prevent migration of hazardous constituents into this component during specified period; lower component designed and constructed to minimize such migration if upper component is breached; specified thickness and hydraulic conductivity	100	264.251(c)(1)(i)(B)					
liners must comply with 264.251(a)(1)(i)-(iii)	100	264.251(c)(1)(ii)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
leachate collection and removal system must collect and remove leachate from the waste pile during the active life and post-closure care period; Regional Administrator to specify permit conditions to ensure leachate depth over liner does not exceed 30 cm (1 ft); leachate collection and removal system must comply with 264.251(c)(3)(iii)&(iv)	100	264.251(c)(2)					
relationship between leachate collection and removal system and the leak detection system; what the leak detection system must be capable of; minimum requirements:	100	264.251(c)(3)					
bottom slope of 1 percent or more	100	264.251(c)(3)(i)					
constructed of: 1) granular drainage materials with hydraulic conductivity of 1×10^{-2} cm/sec or more, and 12 in. (30.5 cm) or more thickness; or 2) synthetic or geonet drainage materials with 3×10^{-5} m ² /sec or more transmissivity	100	264.251(c)(3)(ii)					
construction material specifications	100	264.251(c)(3)(iii)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
designed/operated to minimize clogging during active life and post-closure care period	100	264.251(c)(3)(iv)					
specifications for sumps and liquid removal methods	100	264.251(c)(3)(v)					
collect and remove pumpable liquids in leak detection system sumps to minimize head on the bottom liner	100	264.251(c)(4)					
what must be demonstrated if leak detection system not located completely above seasonal high water table	100	264.251(c)(5)					
10 circumstances under which Regional Administrator may approve alternate design or operating practices if owner/operator can demonstrate that design/practices will:	IV A,100	264.251(d)					
prevent hazardous constituent migration into ground or surface water as effectively as system specified in 264.251(c), and	100	264.251(d)(1)					
allow detection of hazardous constituent leaks through top liner at least as effectively	100	264.251(d)(2)					
10 monofills granted a 264.221(e) waiver by Regional Administrator	IV A,100	264.251(e)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
10 when a replacement waste pile owner/operator is exempt from 264.251(c)	IV A,100	264.251(f)					
meets RCRA 3004(o)(1) (A)(i) and (o)(5) design standards	100	264.251(f)(1)					
no reason to believe liner is not functioning as designed	100	264.251(f)(2)					
10 run-on control system standards	IV A,100	264.251(g)					
10 run-off management system standards	IV A,100	264.251(h)					
10 collection and holding facility standards	IV A,100	264.251(i)					
10 wind dispersal control	IV A,100	264.251(j)					
10 design and operating requirements specified in permit	IV A,100	264.251(k)					
ACTION LEAKAGE RATE							
11,12 Regional Administrator approval of action leakage rate for waste pile units subject to 264.251(c) or (d); definition of action leakage rate; adequate safety margin	IV A,17 I, 100	264.252(a)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
how to determine if action leakage rate has been exceeded; unless another calculation approved, average daily flow rate calculated weekly, during active life and closure period	100	264.252(b)					
RESPONSE ACTIONS							
13 approved response action plan before receipt of waste for waste piles subject to 264.251(c) or (d); address actions if action leakage rate exceeded; plan must describe actions in 264.253(b)	IV A,17 I, 100	264.253(a)					
responsibilities if flow rate into leak system exceeds the action leakage rate for any sump:	100	264.253(b)					
notify Regional Administrator in writing within seven days of determination	100	264.253(b)(1)					
preliminary assessment to Regional Administrator within 14 days of determination; what assessment must address	100	264.253(b)(2)					
determine location, size and cause of any leak	100	264.253(b)(3)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
determine if 1) waste receipt should cease or be curtailed, 2) waste should be removed for inspection, repairs, or controls, and 3) unit should be closed	100	264.253(b)(4)					
determine short- and long-term actions to mitigate or stop any leaks	100	264.253(b)(5)					
within 30 days after Regional Administrator notification, submit the results of 264.253(b)(3)-(5) analyses, the results of actions taken and actions planned; thereafter, as long as flow rate exceeds action leakage rate, monthly report to Regional Administrator summarizing results of remedial actions taken and actions planned	100	264.253(b)(6)					
how the 264.253(b)(3),(4),&(5) determinations must be made	100	264.253(c)					
assess the source of liquids and amounts by source	100	264.253(c)(1)(i)					
conduct analyses of liquids in leak detection system to identify sources of liquids and location of leaks, and the hazard and mobility of the liquid	100	264.253(c)(1)(ii)					

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assess seriousness of leaks	100	264.253(c)(1)(iii)					
document why assessments not needed	100	264.253(c)(2)					

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MONITORING AND INSPECTION							
inspections during construction or installation; inspections immediately after construction or installation	IV A	264.254(a)					
		264.254(a)(1)					
		264.254(a)(2)					
weekly inspections during operation and inspections after storms to detect:	IV A	264.254(b)					
run-on and run-off system problems	IV A	264.254(b)(1)					
proper functioning of wind dispersal controls	IV A,17 I	264.254(b)(2)					
leachate in and proper functioning of leachate systems	IV A,17 I	264.254(b)(3)					
if leak detection system required under 264.251(c), record amount of liquids removed from each sump, at least weekly during active life and closure period	100	264.254(c)					
reserved		264.255					
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE							
conditions for placement of ignitable or reactive waste in waste piles	*,78	264.256					
treatment requirements	IV A	264.256(a)					
		264.256(a)(1)					
		264.256(a)(2)					

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waste management; protection from ignition or reaction	IV A	264.256(b)					

SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

placement in same pile prohibited unless 264.17(b) is complied with	IV A	264.257(a)					
waste separation or protection	IV A	264.257(b)					
base decontamination	IV A	264.257(c)					

CLOSURE AND POST-CLOSURE CARE

closure requirements	IV A	264.258(a)					
post-closure care if not all contaminated subsoils can be practically removed	IV A	264.258(b)					
plans needed whenever liner requirements are not met	IV A	264.258(c)(1)					
		264.258(c)(1)(i)					
		264.258(c)(1)(ii)					
cost estimates	IV A	264.258(c)(2)					

SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026 AND F027

requirements for F020- F023, F026 and F027 regarding placement in waste piles; special management plan; factors to be considered	14	264.259(a)					
		264.259(a)(1)					
		264.259(a)(2)					
		264.259(a)(3)					
		264.259(a)(4)					
additional requirements as determined by the Regional Administrator	14	264.259(b)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:						
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE			
SUBPART M - LAND TREATMENT										
APPLICABILITY										
facilities that treat or dispose of hazardous waste in land treatment units	IV A	264.270								
TREATMENT PROGRAM										
treatment program	IV A	264.271(a)								
elements of the program specified by Regional Administrator in permit	IV A	264.271(a)(1)								
		264.271(a)(2)								
		264.271(a)(3)								
hazardous constituents specified in the permit that must be degraded, transformed or immobilized	IV A	264.271(b)								
treatment zone dimensions specified	IV A	264.271(c)								
		264.271(c)(1)								
		264.271(c)(2)								
TREATMENT DEMONSTRATION										
treatment demonstration required for each waste applied to treatment zone	IV A	264.272(a)								
acceptable evidence to make demonstration; specified in permit	IV A	264.272(b)								

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
field/laboratory test requirements	IV A	264.272(c)					
		264.272(c)(1)					
		264.272(c)(1)(i)					
		264.272(c)(1)(ii)					
		264.272(c)(1)(iii)					
		264.272(c)(1)(iv)					
		264.272(c)(1)(v)					
		264.272(c)(2)					
		264.272(c)(3)					
		264.272(c)(3)(i)					
		264.272(c)(3)(ii)					
		264.272(c)(3)(iii)					
		264.272(c)(3)(iv)					
		264.272(c)(3)(v)					
		DESIGN AND OPERATING REQUIREMENTS					
Regional Administrator will specify these requirements in permit	*	264.273					
construction, design and operation to maximize degradation, transformation, and immobilization of HW; minimum requirements specified in the permit	IV A	264.273(a)					
		264.273(a)(1)					
		264.273(a)(2)					
		264.273(a)(3)					
		264.273(a)(4)					
run-off control	IV A	264.273(b)					
run-on control	IV A	264.273(c)					
stormwater run-off management system	IV A	264.273(d)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
collection and holding facilities	IV A	264.273(e)					
wind dispersal control	IV A	264.273(f)					
inspections	IV A	264.273(g)					
		264.273(g)(1)					
		264.273(g)(2)					
reserved		264.274-264.275					
FOOD-CHAIN CROPS							
conditions for crops in or on treatment zone	*	264.276					
demonstration of no health risk	IV A	264.276(a)(1)					
		264.276(a)(1)(i)					
		264.276(a)(1)(ii)					
demonstration timing	IV A	264.276(a)(2)					
required evidence for acceptable demonstration	IV A	264.276(a)(3)					
		264.276(a)(3)(i)					
		264.276(a)(3)(ii)					
permit for conducting demonstration activities	IV A	264.276(a)(4)					
requirements if waste contains cadmium	IV A	264.276(b)					
		264.276(b)(1)(i)					
		264.276(b)(1)(ii)					
		264.276(b)(1)(iii)					
		264.276(b)(1)(iv)					
		264.276(b)(2)(i)					
		264.276(b)(2)(ii)					
		264.276(b)(2)(iii)					
		264.276(b)(2)(iv)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
reserved		264.277					
UNSATURATED ZONE MONITORING							
owner/operator responsibilities	*	264.278					
monitor soil and soil pore liquid for specific constituents	IV A	264.278(a)					
		264.278(a)(1)					
		264.278(a)(2)					
unsaturated zone monitoring system standards	IV A	264.278(b)					
		264.278(b)(1)					
		264.278(b)(2)					
background value needed for each hazardous constituent	IV A	264.278(c)					
		264.278(c)(1)					
		264.278(c)(2)					
		264.278(c)(3)					
		264.278(c)(4)					
test placement, frequency and timing; how results must be expressed	IV A	264.278(d)					
sampling and analysis procedures; minimum requirements	IV A	264.278(e)					
		264.278(e)(1)					
		264.278(e)(2)					
		264.278(e)(3)					
		264.278(e)(4)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
comparison with background values to determine statistically significant change	IV A	264.278(f)					
		264.278(f)(1)					
		264.278(f)(2)					
		264.278(f)(3)					
		264.278(f)(3)(i)					
		264.278(f)(3)(ii)					
actions if significant increase occurs	IV A	264.278(g)					
		264.278(g)(1)					
		264.278(g)(2)					
requirements for demonstration that units at facility not responsible for increase	IV A	264.278(h)					
		264.278(h)(1)					
		264.278(h)(2)					
		264.278(h)(3)					
		264.278(h)(4)					
RECORDKEEPING							
operating record to include waste application dates and rates	IV A	264.279					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
CLOSURE AND POST-CLOSURE CARE							
owner/operator responsibilities during closure care	IV A	264.280(a)					
		264.280(a)(1)					
		264.280(a)(2)					
		264.280(a)(3)					
		264.280(a)(4)					
		264.280(a)(5)					
		264.280(a)(6)					
		264.280(a)(7)					
		264.280(a)(8)					
closure certification	IV A	264.280(b)					
owner/operator responsibilities during post-closure care	IV A	264.280(c)					
		264.280(c)(1)					
		264.280(c)(2)					
		264.280(c)(3)					
		264.280(c)(4)					
		264.280(c)(5)					
		264.280(c)(6)					
		264.280(c)(7)					
exemption from 264.280(a)(8)&(c)	IV A	264.280(d)					
		264.280(d)(1)					
		264.280(d)(1)(i)					
		264.280(d)(1)(ii)					
		264.280(d)(2)					
		264.280(d)(3)					
		264.280(d)(3)(i)					
		264.280(d)(3)(ii)					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Subpart F exemption	IV A	264.280(e)					
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE							
conditions for applying ignitable or reactive wastes to treatment zone	*,78	264.281					
immediate incorporation of waste into soil	IV A	264.281(a)					
		264.281(a)(1)					
		264.281(a)(2)					
protective management so no reaction or ignition	IV A	264.281(b)					
SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES							
conditions for disposal of incompatible wastes or materials	IV A	264.282					
SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026 AND F027							
requirements for land treatment of F020, F021, F022, F023, F026 and F027	14	264.283(a)					
		264.283(a)(1)					
		264.283(a)(2)					
		264.283(a)(3)					
		264.283(a)(4)					
additional requirements determined by Regional Administrator	14	264.283(b)					
SUBPART N - LANDFILLS							
APPLICABILITY							
apply to hazardous waste disposal facilities using landfills	IV A	264.300					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
DESIGN AND OPERATING REQUIREMENTS							
landfill not covered by 264.301(c) or 265.301(a) must have liner system	*,17 H	264.301(a)					
liner standards	IV A	264.301(a)(1)					
		264.301(a)(1)(i)					
		264.301(a)(1)(ii)					
		264.301(a)(1)(iii)					
		264.301(a)(2)					
leachate collection and removal system standards	IV A	264.301(a)(2)(i)					
		264.301(a)(2)(i)(A)					
		264.301(a)(2)(i)(B)					
		264.301(a)(2)(ii)					
		264.301(b)					
exemption; factors Regional Administrator will consider	IV A	264.301(b)(1)					
		264.301(b)(2)					
		264.301(b)(3)					
		264.301(b)(4)					
		landfills that must install two or more liners and a leachate collection and removal system above and between such liners; "construction commences" defined under "existing facility"	17 H,77, 100	264.301(c)			
the liner system must include:	100	264.301(c)(1)(i)					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
top liner designed and constructed to prevent migration of hazardous constituents into liner for specified period	100	264.301(c)(1)(i)(A)					
composite bottom liner consisting of at least two components; upper component to prevent migration of hazardous constituents into this component during specified period; lower component designed and constructed to minimize such migration if upper component is breached; specified thickness and hydraulic conductivity	100	264.301(c)(1)(i)(B)					
liners must comply with 264.301(a)(1)(i)-(iii)	100	264.301(c)(1)(ii)					
16 leachate collection and removal system must collect and remove leachate from the landfill during the active life and post-closure care period; Regional Administrator to specify permit conditions to ensure leachate depth over liner does not exceed 30 cm (1 ft); leachate collection and removal system must comply with 264.301(c)(3)(ii)&(iv)	100	264.301(c)(2)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
relationship between leachate collection and removal system and the leak detection system; what the leak detection system must be capable of; minimum requirements:	100	264.301(c)(3)					
bottom slope of 1 percent or more	100	264.301(c)(3)(i)					
constructed of: 1) granular drainage materials with hydraulic conductivity of 1×10^{-2} cm/sec or more, and 12 in. (30.5 cm) or more thickness; or 2) synthetic or geonet drainage materials with 3×10^{-5} m ² /sec or more transmissivity	100	264.301(c)(3)(ii)					
construction material specifications	100	264.301(c)(3)(iii)					
designed/operated to minimize clogging during active life and post-closure care period	100	264.301(c)(3)(iv)					
specifications for sumps and liquid removal methods	100	264.301(c)(3)(v)					
collect and remove pumpable liquids in leak detection system sumps to minimize head on the bottom liner	100	264.301(c)(4)					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
what must be demonstrated if leak detection system not located completely above seasonal high water table	100	264.301(c)(5)					
†,15 Regional Administrator may approve alternate design or operating practices if owner/operator can demonstrate that design/practices will:	17 H,100	264.301(d)					
prevent hazardous constituent migration into ground or surface water as effectively as system specified in 264.301(c), and	100	264.301(d)(1)					
allow detection of hazardous constituent leaks through top liner at least as effectively	100	264.301(d)(2)					

†,4,1

5 Waiver from Double Liner Requirement

monofills--criteria for waiving double liner requirements	17 H	264.301(e)					
	17 H,74	264.301(e)(1)					
		264.301(e)(2)(i)(A)					
		264.301(e)(2)(i)(B)					
		264.301(e)(2)(i)(C)					
		264.301(e)(2)(ii)					
	17 H	264.301(e)(2)(ii)					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
15 replacement landfill owner/operator is exempt from 264.301(c)	100	264.301(f)					
meets RCRA 3004(o)(1) (A)(i) and (o)(5) design standards	100	264.301(f)(1)					
no reason to believe liner is not functioning as designed	100	264.301(f)(2)					
15 run-on control system	IV A, 17 H, 100	264.301(g)					
15 run-off management system	IV A, 17 H, 100	264.301(h)					
15,19 collection and holding facilities management	IV A, 17 H, 100	264.301(i)					
15 wind dispersal control	IV A, 17 H, 100	264.301(j)					
15 permit specification of design and operating practices	IV A, 17 H, 100	264.301(k)					
15 liner and leachate requirements for landfills in Alabama	17 H, 100	264.301(l)					
ACTION LEAKAGE RATE							
17,18 Regional Administrator approval of action leakage rate for units subject to 264.301(c) or (d); definition of action leakage rate; adequate safety margin	IV A, 17 I, 100	264.302(a)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
how to determine if action leakage rate has been exceeded; unless another calculation approved, average daily flow rate calculated weekly during active life and closure period, and monthly during post-closure period	100	264.302(b)					
MONITORING AND INSPECTION							
inspection during and immediately after construction or installation	IV A	264.303(a)					
		264.303(a)(1)					
		264.303(a)(2)					
inspections during operation to determine:	IV A	264.303(b)					
run-on and run-off control problems	IV A,17 I	264.303(b)(1)					
19 proper functioning of wind dispersal control system	IV A,17 I	264.303(b)(2)					
19 presence of leachate in and proper functioning of leachate collection and removal systems	IV A,17 I	264.303(b)(3)					
if leak detection system required under 264.301(c) or (d), record amount of liquids removed from each sump at least weekly during the active life and closure period	100	264.303(c)(1)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
after final cover installed, at least monthly record the amount of liquids removed from each leak detection sump; when quarterly and semi- annual recording allowed; when monthly recording must resume	100	264.303(c)(2)					
definition of "pump operating level"	100	264.303(c)(3)					
RESPONSE ACTIONS							
approved response action plan before receipt of waste for landfills subject to 264.301(c) or (d); address actions if action leakage rate exceeded; at a minimum, plan must describe actions in 264.304(b)	100	264.304(a)					
responsibilities if flow rate into leak detection system exceeds the action leakage rate for any sump:	100	264.304(b)					
notify Regional Administrator in writing within seven days of determination	100	264.304(b)(1)					
preliminary assessment to Regional Administrator within 14 days of determination; what assessment must address	100	264.304(b)(2)					
determine location, size and cause of any leak	100	264.304(b)(3)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
determine 1) whether waste receipt should cease or be curtailed, 2) whether waste should be removed for inspection, repairs, or controls, and 3) whether unit should be closed	100	264.304(b)(4)					
determine short- and longer-term actions to mitigate or stop any leaks	100	264.304(b)(5)					
within 30 days after Regional Administrator notification, submit the results of 264.304(b)(3)-(5) analyses, the results of actions taken and actions planned; thereafter, as long as flow rate exceeds action leakage rate, monthly report to Regional Administrator summarizing results of remedial actions taken and actions planned	100	264.304(b)(6)					
how the 264.304(b)(3)-(5) determinations must be made	100	264.304(c)					
assess the source of liquids and amounts by source	100	264.304(c)(1)(i)					
conduct analyses of liquids in leak detection system to identify sources of liquids and location of leaks, and the hazard and mobility of the liquid	100	264.304(c)(1)(ii)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
assess seriousness of leaks	100	264.304(c)(1)(iii)					
document why assessments not needed	100	264.304(c)(2)					
reserved		264.305-264.308					

SURVEYING AND RECORDKEEPING

items which must be in operating record	*	264.309					
location and dimensions of landfill to be shown on maps	IV A	264.309(a)					
contents of each cell and location of each hazardous waste type in each cell	IV A	264.309(b)					

CLOSURE AND POST-CLOSURE CARE

cover requirements at final closure	IV A	264.310(a)					
		264.310(a)(1)					
		264.310(a)(2)					
		264.310(a)(3)					
		264.310(a)(4)					
		264.310(a)(5)					
post-closure requirements	IV A	264.310(b)					
final cover requirements	IV I	264.310(b)(1)					
20 leachate system requirements	IV A, 17 I	264.310(b)(2)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
20 maintain and monitor leak detection system according to 264.301(c) (3)(iv)&(4) and 264.303(c); comply with other applicable Part 264 leak detection requirements	100	264.310(b)(3)					
20 ground-water monitoring system requirements	IV A,17 I, 100	264.310(b)(4)					
20 run-on and run-off control requirements	IV A,17 I, 100	264.310(b)(5)					
20 protect and maintain surveyed benchmarks	IV A,17 I, 100	264.310(b)(6)					
removed	IV A,17 I	264.310(c)					
reserved		264.311					
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE							
placement prohibited unless waste and landfill meet Part 268 requirements and waste is no longer ignitable or reactive and 264.17(b) is complied with	IV A,78	264.312(a)					
		264.312(a)(1)					
	IV A	264.312(a)(2)					
containerized wastes	IV A,78	264.312(b)					
SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES							
conditions for disposal in landfill	IV A	264.313					
SPECIAL REQUIREMENTS FOR BULK AND CONTAINERIZED LIQUIDS							
bulk liquid disposal prior to May 8, 1985 only if:	IV A,17 F	264.314(a)					
liner and leachate system requirements	IV A	264.314(a)(1)					
liquids must be stabilized	IV A,118	264.314(a)(2)					

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	FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
					EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
21	May 8, 1985 free liquids ban	17 F,118	264.314(b)					
	paint filter test	16,126	264.314(c)					
21	conditions for placement of containers holding free liquids in a landfill	IV A, †17 F	264.314(d)					
			264.314(d)(1)					
			264.314(d)(1)(i)					
		IV A, †17 F,118	264.314(d)(1)(ii)					
			264.314(d)(1)(iii)					
			264.314(d)(2)					
		IV A,†17 F	264.314(d)(3)					
			264.314(d)(4)					
22	sorbents used to treat free liquids disposed in landfills must be nonbiodegradable; definition of nonbiodegradable sorbents	118	264.314(e)					
22	nonbiodegradable sorbents	118	264.314(e)(1)					
			264.314(e)(1)(i)					
			264.314(e)(1)(ii)					
			264.314(e)(1)(iii)					
22	tests for nonbiodegradable sorbents	118	264.314(e)(2)					
	ASTM Method G21-70 (1984a)	118	264.314(e)(2)(i)					
	ASTM Method G22-76 (1984b)	118,†145	264.314(e)(2)(ii)					
†	OECD test 301B	145	264.314(e)(2)(iii)					

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FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
22 nonhazardous liquids ban effective November 8, 1985; what must be demonstrated to Regional Administrator for exemption	17 F,118	264.314(f)					
†,22 only reasonable available alternative	17 F,118	264.314(f)(1)					
†,22 not a risk of contaminating underground source of drinking water	17 F,118	264.314(f)(2)					
SPECIAL REQUIREMENTS FOR CONTAINERS							
requirements if containers not very small	*	264.315					
at least 90% full	IV A	264.315(a)					
crushed, shredded or reduced in volume before burial	IV A	264.315(b)					
DISPOSAL OF SMALL CONTAINERS OF HAZARDOUS WASTE IN OVERPACKED DRUMS (LAB PACKS)							
conditions for placement of overpacked drums in landfills	*	264.316					
inside container requirements including DOT requirements	IV A	264.316(a)					
overpacking--DOT requirements; outer container	IV A,118	264.316(b)					
sorbent material	IV A,118	264.316(c)					
incompatible wastes	IV A	264.316(d)					
reactive wastes	IV A	264.316(e)					

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				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
23 disposal in compliance with Part 268; fiber drums allowed for incineration of lab packs	78	264.316(f)					

SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026, AND F027

requirements for placement of F020, F021, F022, F023, F026 and F027 in a landfill	14	264.317(a)					
		264.317(a)(1)					
		264.317(a)(2)					
		264.317(a)(3)					
		264.317(a)(4)					
additional requirements that Regional Administrator may require	14	264.317(b)					

SUBPART O - INCINERATORS

APPLICABILITY

regulations apply to owners and operators of hazardous waste incinerators (as defined in 260.10), except as 264.1 provides otherwise	IV A,13,85	264.340(a)					
24 removed	13,85	264.340(a)(1)					
24 removed	13,19,85	264.340(a)(2)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
		264.340(b)					
		264.340(b)(1)					
		264.340(b)(1)(i)					
		264.340(b)(1)(ii)					
		264.340(b)(1)(iii)					
		264.340(b)(1)(iv)					
exemptions	IV A	264.340(b)(2)					
exemption for insignificant concentrations	IV A	264.340(c)					
trial burns	*	264.340(d)					
WASTE ANALYSIS							
in trial burn plan to provide required information	IV A	264.341(a)					
waste analysis during normal operation	IV A	264.341(b)					
PRINCIPAL ORGANIC HAZARDOUS CONSTITUENTS (POHCs)							
must be treated to 264.343 performance requirements	IV A	264.342(a)					
basis for selection in permit	IV A	264.342(b)(1)					
trial POHCs designated in trial burns	IV A	264.342(b)(2)					
PERFORMANCE STANDARDS							
standards to be met for incinerators	*	264.343					
D.R.E. for hazardous waste	IV A,14	264.343(a)(1)					
D.R.E. for dioxins	14	264.343(a)(2)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
HCl emission control	IV A	264.343(b)					
particulate emission control	IV A	264.343(c)					
permit enforcement	*	264.343(d)					

HAZARDOUS WASTE INCINERATOR PERMITS

exceptions to burning only those wastes and using only those conditions specified in permit	IV A	264.344(a)					
		264.344(a)(1)					
		264.344(a)(2)					
permit modifications	IV A	264.344(b)					
permits for new incinerators	IV A	264.344(c)					
		264.344(c)(1)					
		264.344(c)(2)					
		264.344(c)(3)					
		264.344(c)(4)					

OPERATING REQUIREMENTS

operating conditions specified in the permit; specified on a case-by-case basis	IV A	264.345(a)					
operating requirements specify composition of waste feed; conditions specified	IV A	264.345(b)					
		264.345(b)(1)					
		264.345(b)(2)					
		264.345(b)(3)					
		264.345(b)(4)					
		264.345(b)(5)					
	IV A	264.345(b)(6)					
start-up and shut-down conditions	IV A	264.345(c)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
fugitive emission control	IV A	264.345(d)					
		264.345(d)(1)					
		264.345(d)(2)					
		264.345(d)(3)					
automatic cut-off of waste feed	IV A	264.345(e)					
when operations must stop	IV A	264.345(f)					
reserved		264.346					

MONITORING AND INSPECTIONS

required monitoring while incinerating hazardous waste	IV A	264.347(a)					
		264.347(a)(1)					
		264.347(a)(2)					
		264.347(a)(3)					
daily inspections of incinerator and associated equipment	IV A	264.347(b)					
weekly inspections of emergency waste feed cut-off system and associated alarms	IV A	264.347(c)					
monitoring and inspection data in 264.73 operating log	IV A	264.347(d)					
reserved		264.348-264.350					

CLOSURE

remove all hazardous wastes and residues	IV A	264.351					
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CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE

SUBPART S - CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS

† **CORRECTIVE ACTION MANAGEMENT UNITS (CAMU)**

Regional Administrator may designate one or more areas at a facility as CAMUs for purpose of implementing remedies under 264.101 or RCRA 3008(h)	121	264.552(a)					
placement of remediation wastes in CAMU does not constitute land disposal	121	264.552(a)(1)					
consolidation or placement of remediation wastes in CAMU does not constitute creation of a unit subject to minimum technology requirements	121	264.552(a)(2)					
Regional Administrator may designate a regulated unit as a CAMU or include a regulated unit in a CAMU; criteria	121	264.552(b)(1)					
	121	264.552(b)(1)(i)					
	121	264.552(b)(1)(ii)					
Subparts F, G, and H and unit-specific Parts 264 or 265 requirements that applied to regulated unit continue to apply to that portion of CAMU after incorporation	121	264.552(b)(2)					
criteria by which Regional Administrator shall designate CAMU:	121	264.552(c)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
CAMU shall facilitate implementation of reliable, effective, protective, and cost-effective remedies	121	264.552(c)(1)					
associated waste management activities shall not create unacceptable risks to humans or the environment	121	264.552(c)(2)					
CAMU shall include uncontaminated areas only if including such areas for purpose of managing remediation waste is more protective than managing such wastes at contaminated areas	121	264.552(c)(3)					
CAMU areas where waste will remain after closure shall be managed and contained to minimize future releases, to the extent practicable	121	264.552(c)(4)					
CAMU shall expedite remedial activity implementation when appropriate and practical	121	264.552(c)(5)					
CAMU shall enable use of treatment technologies, when appropriate, to enhance long-term effectiveness of remedial actions	121	264.552(c)(6)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
CAMU shall, to the extent practicable, minimize land area where wastes will remain after closure	121	264.552(c)(7)					
owner/operator shall provide sufficient information to enable Regional Administrator to designate CAMU in accordance with 264.552	121	264.552(d)					
Regional Administrator shall specify CAMU requirements in permit or order, including:	121	264.552(e)					
areal configuration of CAMU	121	264.552(e)(1)					
requirements for remediation waste management, including applicable design, operation and closure requirements	121	264.552(e)(2)					
requirements for ground water monitoring sufficient to:	121	264.552(e)(3)					
continue to detect and characterize existing releases from sources within CAMU	121	264.552(e)(3)(i)					
detect and characterize releases from areas of the CAMU in which wastes will remain after closure	121	264.552(e)(3)(ii)					
closure and post-closure requirements:	121	264.552(e)(4)					
CAMU closure shall:	121	264.552(e)(4)(i)					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
minimize need for further maintenance	121	264.552(e)(4)(i)(A)					
control, minimize, or eliminate post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to ground, surface waters, or atmosphere	121	264.552(e)(4)(i)(B)					
requirements for closure of CAMU shall include, as appropriate and deemed necessary by the Regional Administrator:	121	264.552(e)(4)(ii)					
excavation, removal, treatment or containment of wastes	121	264.552(e)(4)(ii)(A)					
capping of areas in which wastes will remain after CAMU closure	121	264.552(e)(4)(ii)(B)					
removal and decontamination of equipment, devices, and structures used in remediation waste management activities within CAMU	121	264.552(e)(4)(ii)(C)					
in establishing specific 264.552(e) closure requirements, Regional Administrator shall consider:	121	264.552(e)(4)(iii)					
CAMU characteristics	121	264.552(e)(4)(iii)(A)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
volume of wastes which remain in place after closure	121	264.552(e)(4)(iii)(B)					
potential for releases from CAMU	121	264.552(e)(4)(iii)(C)					
physical and chemical characteristics of the waste	121	264.552(e)(4)(iii)(D)					
25 hydrogeological and other relevant environmental conditions which may influence migration of potential or actual releases	121	264.552(e)(4)(iii)(E)					
potential for exposure of human and environmental receptors if releases occur	121	264.552(e)(4)(iii)(F)					
post-closure requirements as necessary to protect human health and the environment; for areas where wastes will remain, monitoring and maintenance activities and frequency	121	264.552(e)(4)(iv)					
Regional Administrator shall document rationale for CAMU designation; make documentation available to public	121	264.552(f)					
incorporation of CAMU into existing permit approved by Regional Administrator under 270.41 or 270.42 procedures	121	264.552(g)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
CAMU designation does not change EPA's existing authority to address clean-up levels, media-specific points of compliance, or other remedy selection decisions	121	264.552(h)					

† TEMPORARY UNITS (TU)

Regional Administrator may determine alternative design, operating, or closure standards for temporary tanks and container storage areas for treatment or storage of hazardous remediation wastes under 264.101 or RCRA 3008(h); must protect human health and environment	121	264.553(a)					
temporary unit to which alternative requirements are applied shall be:	121	264.553(b)					
located within facility boundary	121	264.553(b)(1)					
used only for treatment or storage of remediation wastes	121	264.553(b)(2)					
factors Regional Administrator shall consider in establishing temporary unit standards:	121	264.553(c)					
length of time unit will be in operation	121	264.553(c)(1)					
type of unit	121	264.553(c)(2)					

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
volumes of wastes to be managed	121	264.553(c)(3)					
physical and chemical characteristics of wastes to be managed	121	264.553(c)(4)					
potential for releases from the unit	121	264.553(c)(5)					
hydrogeological and other relevant environmental conditions which may influence migration of potential releases	121	264.553(c)(6)					
potential for exposure of humans and environmental receptors if releases occur	121	264.553(c)(7)					
Regional Administrator shall specify in permit or order length of time, up to a year, the temporary unit will be allowed to operate; design, operating, and closure requirements for the unit	121	264.553(d)					
26 Regional Administrator may extend operational period of temporary unit once for no longer than one year beyond period specified in permit or order, if:	121	264.553(e)					
continued operation of unit will not threaten human health and environment	121	264.553(e)(1)					

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
continued operation of unit is necessary to ensure timely and efficient implementation of remedial actions	121	264.553(e)(2)					
incorporation of a temporary unit or time extension for temporary unit in an existing permit shall be:	121	264.553(f)					
approved in accordance with 270.41 permit modification procedures	121	264.553(f)(1)					
requested by owner/operator as Class II modification in accordance with 270.42	121	264.553(f)(2)					
Regional Administrator shall document rationale for temporary unit designation; documentation made available to public	121	264.553(g)					

¹ Paragraphs 264.221(c), (d), and (e) were originally introduced to the Federal code by Base Program Checklist IV A. Revision Checklist 17H introduced new text at paragraphs (c), (d), and (e), and it redesignated the base program (c), (d), and (e) as (f), (g), and (h), respectively. Paragraph 264.221(c) was subsequently revised by Revision Checklist 77. Both paragraphs 264.221(c) and (d) were extensively revised by Revision Checklist 100 which added subparagraphs (c)(1) through (c)(4) and (d)(1) through (d)(2).

² Note that there is a technical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "1x10⁻⁷/cm/sec" should be "1x10⁻⁷cm/sec."

³ Note that there are two technical errors in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "1x10⁻¹/cm/sec" should be "1x10⁻¹cm/sec" and "3x10⁻⁴/m²sec" should be "3x10⁻⁴m²/sec."

⁴ Citations within the double lines are optional, but if a State chooses to modify its program to adopt requirements equivalent to these provisions, it must adopt such requirements as a unit rather than by individual provision. In other words, all or none of these provisions must be included in a State's code. Subsequent

CONSOLIDATED CHECKLIST C5
40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

changes to these provisions may or may not be optional for States that have chosen to adopt the optional unit of provisions. An optional sign appears in front of the subsequent revision checklist number(s) if such subsequent changes are less stringent than or reduce the scope of the unit's requirements.

- 5 The provisions at 264.221(g), (h), and (i) were originally introduced to the Federal code at 264.221(c), (d), and (e) as part of the base program. Revision Checklist 17H introduced new paragraphs at (c), (d), and (e). The original (c), (d), and (e) were redesignated as (f), (g), and (h). Revision Checklist 100 subsequently redesignated paragraphs 264.221(f), (g), and (h) as 264.221(g), (h), and (i), respectively, and introduced a new paragraph (f) to the Federal code.
- 6 Section 264.222 was originally introduced into the Federal code by Checklist IV A as an exemption from Subpart F for double-lined surface impoundments (Ground-Water Monitoring) and was removed by Revision Checklist 17 I. Revision Checklist 100 introduced a new section 264.222 back into the code.
- 7 Revision Checklist 17 I affected this subparagraph by removing the original 264.226(b)(3) and redesignating the original 264.226(b)(4) as (b)(3).
- 8 Revision Checklist 17 I affected this paragraph by removing the original 264.228(b)(2) in Checklist IV A and redesignating 264.228(b)(3) and (b)(4) as (b)(2) and (b)(3), respectively. Revision Checklist 100 subsequently redesignated 264.228(b)(2) and (b)(3) as (b)(3) and (b)(4), respectively, and added a new (b)(2) to the code.
- 9 See the prenote for this checklist regarding State adoption of Revision Checklist 154.
- 10 Revision Checklist 100 redesignated the original 264.251(c), (d), (e), (f), and (g), as introduced by Checklist IV A, as 264.251(g), (h), (i), (j), and (k), respectively, and added new paragraphs (c), (d), (e), and (f) to the Federal code.
- 11 Section 264.252 was originally introduced into the Federal code by Checklist IV A as an exemption from Subpart F for double-lined piles (Ground-Water Monitoring) and was removed by Revision Checklist 17 I. Revision Checklist 100 introduced a new section 264.252 into the code.
- 12 Note that there is a typographical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "surface impoundment" should be "waste pile."
- 13 Section 264.253 was originally introduced into the code by Checklist IV A as an exemption from Subpart F for inspection of liners (Ground-Water Monitoring) and was removed by Revision Checklist 17 I. Revision Checklist 100 introduced a new section 264.253 into the code.
- 14 The original 264.254(b)(2) was removed by Revision Checklist 17 I, which redesignated 264.254(b)(3) and (4) as 264.254(b)(2) and (3), respectively.
- 15 The Base program originally included provisions at 264.301(c)-(g). Revision Checklist 17H introduced new paragraphs at 264.301(c)-(e) and redesignated the original (c)-(g) as (f)-(i). It also added paragraph 264.301(k). Revision Checklist 100 completely revised paragraphs 264.301(c) and (d), redesignated paragraphs 264.301(f)-(k) as 264.301(g)-(l), respectively, and added a new paragraph 264.301(f).
- 16 Note that there is a technical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "paragraphs (3)(c)(iii) and (iv)" should be "paragraphs (c)(3)(iii) and (iv)."

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40 CFR Part 264, Subparts K-S, as of June 30, 1996 (cont'd)

- 17 Section 264.302 was originally introduced into the code by Checklist IV A as an exemption from Subpart F for double-lined landfills (Ground-Water Monitoring) and was subsequently removed by Revision Checklist 17 I. Checklist 100 introduced a new section 264.302 into the code.
- 18 Note that there is a typographical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "surface impoundment" should be "landfill."
- 19 The old 264.303(b)(2) from Checklist IV B was removed by Revision Checklist 17 I. 264.303(b)(3) and (4) were then redesignated by this checklist as 264.303(b)(2) and (3).
- 20 Revision Checklist 17 I removed the old 264.310(b)(2) of Checklist IV A and redesignated 264.310(b)(3),(4),(5)&(6) as 264.310(b)(2),(3),(4)&(5). Subsequently, Revision Checklist 100 redesignated 264.310(b)(3),(4)&(5) as 264.310(b)(4),(5)&(6), and added a new 264.310(b)(3).
- 21 Revision Checklist 17 F redesignated the old 264.314(b) of Checklist IV A as 264.314(d) and added a new 264.314(b). The redesignation is optional.
- 22 Revision Checklist 17 F (50 FR 28702, July 15, 1985) introduced the original 264.314(e), 264.314(e)(1), and 264.314(e)(2) into the code. Revision Checklist 118 (57 FR 54452, November 18, 1992) redesignated these paragraphs as 264.314(f), 264.314(f)(1), and 264.314(f)(2) and introduced a new 264.314(e) and subparagraphs.
- 23 This code is part of the optional requirements for the alternate treatment standards for lab packs under the Third Third Scheduled Waste Rule. If adopted, all of the requirements (i.e., 264.316(f), 265.316(f), 268.7(a)(7), 268.7(a)(8), 268.42(c), 268.42(c)(1)-(4), and Appendices IV and V to Part 268) related to these alternate treatment standards must be adopted.
- 24 Revision Checklist 13 introduced 264.340(a)(1) & (2) to the Federal code. Subparagraph 264.340(a)(2) was subsequently modified by Revision Checklist 19. Revision Checklist 85 then removed 264.340(a)(1) & (2).
- 25 Note that there is a typographical error in the Federal Register addressed by Revision Checklist 121 (58 FR 8658; February 16, 1993); in 264.552(e)(4)(iii)(E), "Hydrological" should be "Hydrogeological".
- 26 Note that at 264.553(e), "Administrator" should read "Regional Administrator" in the Federal Register addressed by Revision Checklist 121 (58 FR 8658; February 16, 1993).